ABSTRACT OF THE INVENTION

A method for estimating the error vector magnitude (EVM) of an OFDM signal comprises the steps of obtaining a multi-tone EVM of a separate multi-tone signal, and using the multi-tone EVM to estimate the OFDM EVM. The multi-tone signal is designed to have carriers that occupy a small fraction of OFDM bins, and its EVM is estimated from the ratio of sums of full bin energies and empty bin energies.